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METHODS AND KIT FOR HYBRIDIZATION ANALYSIS USING PEPTIDE NUCLEIC  
ACID PROBES

Abstract of the Disclosure

A method composition and apparatus for the hybridization and separation of molecules having a desired target sequence in a sample by contacting a sample of single stranded nucleic acids with a detectable PNA probe having a sequence complementary to the target sequence so that the target sequence, if present, will hybridize with the detectable probe to form a detectable duplex, and then separating the duplex in a denaturing medium from unbound sample components by electrophoresis. The invention also relates to methods compositions and apparatus for the hybridization and separation of molecules having a desired target sequence in a mixed sample of single stranded nucleic acids and their complementary strands by contacting the sample with a detectable PNA probe.

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